

ABSTRACT OF THE DISCLOSURE

A light flux modulated by a picture is shot out from a liquid crystal projector, and projected on the rear surface of the transparent screen, and a user enjoys the picture from the front side thereof. The sawlike prismatic surface is formed on the rear surface of the transparent screen. Edges of the sawlike prismatic surface form concentric circles centering around a point which is given as an intersection of an optical axis of the projector and a downward extensions of the transparent screen. A face looking downward transmits the light flux incident thereon into the transparent screen efficiently on condition that an angle formed by the incident ray of light and the optical axis of the projector is greater than  $40^\circ$  and less than  $90^\circ$ . A face looking upward totally reflects the ray of light incident thereon to the light-shooting surface, if the aforementioned condition is satisfied.

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